

# Solving Multi-Step Equations

Like Terms - No Negative Coefficients

Name: \_\_\_\_\_ Date: \_\_\_\_\_



Solve the equations.

(1)  $-90 + 12x - 5x = 57$

(2)  $-2x + 6x - 25 = 23$

(3)  $6x - 125 + 3x = 46$

(4)  $-74 + 2x + 8x = 146$

(5)  $9x - 144 + 6x = 81$

(6)  $10x - 8x - 17 = 23$

(7)  $-107 + 3x + 2x = 33$

(8)  $3x + 6x - 33 = 75$

(9)  $-117 + 9x - x = 91$

(10)  $-8x + 10x - 21 = 17$

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## ANSWER KEY



Solve the equations.

(1)  $-90 + 12x - 5x = 57$

$$-90 + 7x = 57$$

$$7x = 147$$

$$x = 21$$

(2)  $-2x + 6x - 25 = 23$

$$-25 + 4x = 23$$

$$4x = 48$$

$$x = 12$$

(3)  $6x - 125 + 3x = 46$

$$-125 + 9x = 46$$

$$9x = 171$$

$$x = 19$$

(4)  $-74 + 2x + 8x = 146$

$$-74 + 10x = 146$$

$$10x = 220$$

$$x = 22$$

(5)  $9x - 144 + 6x = 81$

$$-144 + 15x = 81$$

$$15x = 225$$

$$x = 15$$

(6)  $10x - 8x - 17 = 23$

$$-17 + 2x = 23$$

$$2x = 40$$

$$x = 20$$

(7)  $-107 + 3x + 2x = 33$

$$-107 + 5x = 33$$

$$5x = 140$$

$$x = 28$$

(8)  $3x + 6x - 33 = 75$

$$-33 + 9x = 75$$

$$9x = 108$$

$$x = 12$$

(9)  $-117 + 9x - x = 91$

$$-117 + 8x = 91$$

$$8x = 208$$

$$x = 26$$

(10)  $-8x + 10x - 21 = 17$

$$-21 + 2x = 17$$

$$2x = 38$$

$$x = 19$$